

**ABSTRACT OF THE DISCLOSURE**

- A method of ink level determination for multiple ink chambers includes the steps of determining a first estimated amount of a first ink in a first ink chamber; determining a second estimated amount of a second ink in a second ink chamber; measuring an amount of the second ink contained in the second ink chamber;
- 5 determining an actual ink loss for the second ink chamber by finding a difference between the amount of the second ink measured in the second ink chamber and the second estimated amount of the second ink in the second ink chamber; and modifying the first estimated amount of the first ink in the first ink chamber using the actual ink loss for the second ink chamber to form a compensated first ink amount.